

Understanding Basic Concept of Electrical and Electronic Systems

Asadullah Shah



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UNDERSTANDING BASIC CONCEPT OF ELECTRICAL AND ELECTRONIC SYSTEMS

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Asadullah Shah



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3. FAMILIARIZATION WITH OSCILLOSCOPE

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3.0 Abstract

An oscilloscope is an alternative to the meters in a visual form. The Oscilloscopes are the devices with mostly dual channel systems. Each of these channels has ability to display a signal on screen for visualization and measurement purpose. The quantities such as current and voltage and their frequencies can measured by adjusting screen grid to an appropriate scale. The purpose in this lab is to familiarize students with this device so that they can measure input and output simultaneously by placing two channels voltage or current waveform side by side it also gives a very quick visual analysis skill to the users to perceive the changing effects of variation at the source.

3.1 Introduction

An **oscilloscope** (abbreviated sometimes as **scope** or **O-scope**) is a type of electronic test instrument that allows signal voltages to be viewed, usually as a two-dimensional graph of one or more electrical potential differences

A typical oscilloscope can display alternating current (AC) or pulsating direct current (DC) waveforms having a frequency as low as approximately 1 Hertz (Hz) or as high as several megahertz (MHz).